

EXPEDITE

INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

COUNTRY USSR (Vladimir Oblast)

REPORT

SUBJECT Production of Rocket and Space Ship DATE DISTR. 19 July 1961

Materials at Dzerzhinsk Glass

Factory (facilities, sketch of layout. NO. PAGES 4

limited info concerns use of quartz glass
containing air bubbles as rocket nose
cones) REFERENCES

50X1-HUM

DATE OF
INFO.PLACE &
DATE ACQ.

1. [redacted] the Dzerzhinsk Glass Factory in Gus Khrustalnyy (N 55-37, E 40-40), USSR. Within the factory grounds there is an old building in a restricted area referred to as "Section 40" (See sketches 1 and 2).¹ As of July 1960, quartz glass was being produced in this building for use in manufacture of rockets (sic).² The moulds for the production of the quartz glass were made by pressing powdered graphite. This section also produced other fireproof materials and engaged in experimentation.³ The section worked in shifts.

2. Soviet chemists at the central laboratory of the Dzerzhinsk Glass Factory were experimenting with quartz glass which contained air bubbles. [redacted]

50X1-HUM

[redacted] The glass contained air bubbles which closely resembled those observed at the Dzerzhinsk central laboratory.

3. [redacted] a special section [redacted] produced quartz glass allegedly used in the manufacture of space ships. This quartz glass could be heated to a temperature of 1,800 degrees without losing its solid form and could be plunged at this temperature into cold water without cracking.

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

STATE	X	ARMY	#	X	NAVY	#	X	AIR	#	X	NSA	X	NSC	NIC	X	ORR/OS	X	OCR	X
(Note: Washington distribution indicated by "X"; Field distribution by "#")																			

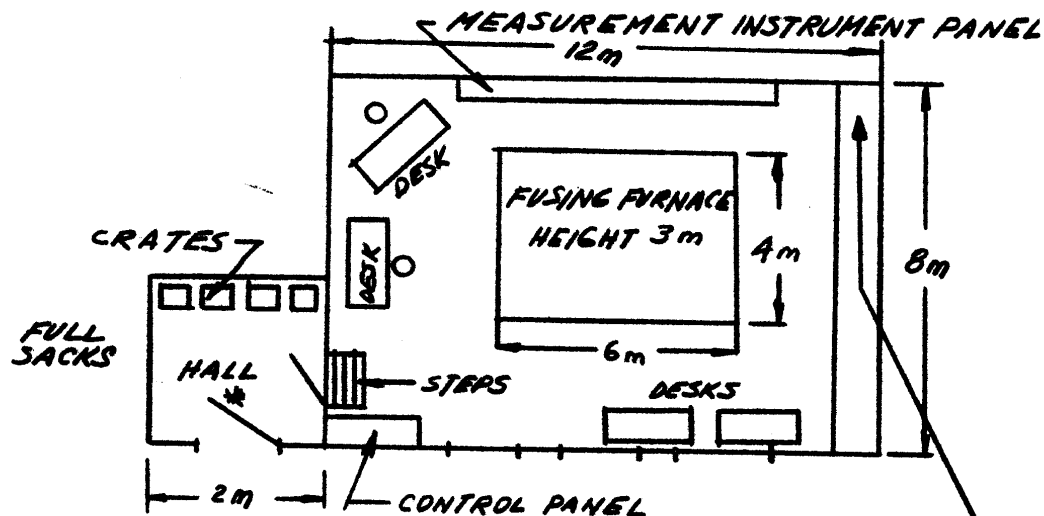
C-O-N-F-I-D-E-N-T-I-A-L

-2-

50X1-HUM

SKETCH No. 1.
NOT IN SCALE

PLAN OF THE INTERIOR OF BUILDING No. 40



PANEL HAVING ELECTRIC CONNECTIONS AT THE PARTS NEAR THE CEILING PROBABLY ELECTRICAL ENERGY PANEL.

* PLACE WHERE THE MAIN FURNACE IS LOCATED IS ABOUT 2.5m BELOW THE HALL.

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

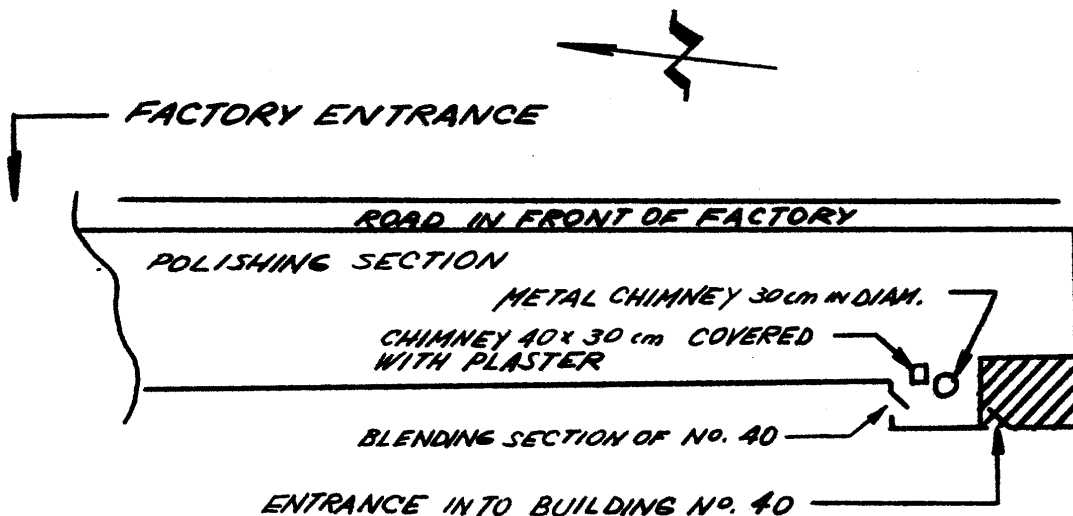
SKETCH SHOWING THE LOCATION OF BUILDING No. 40

C-O-N-F-I-D-E-N-T-I-A-L

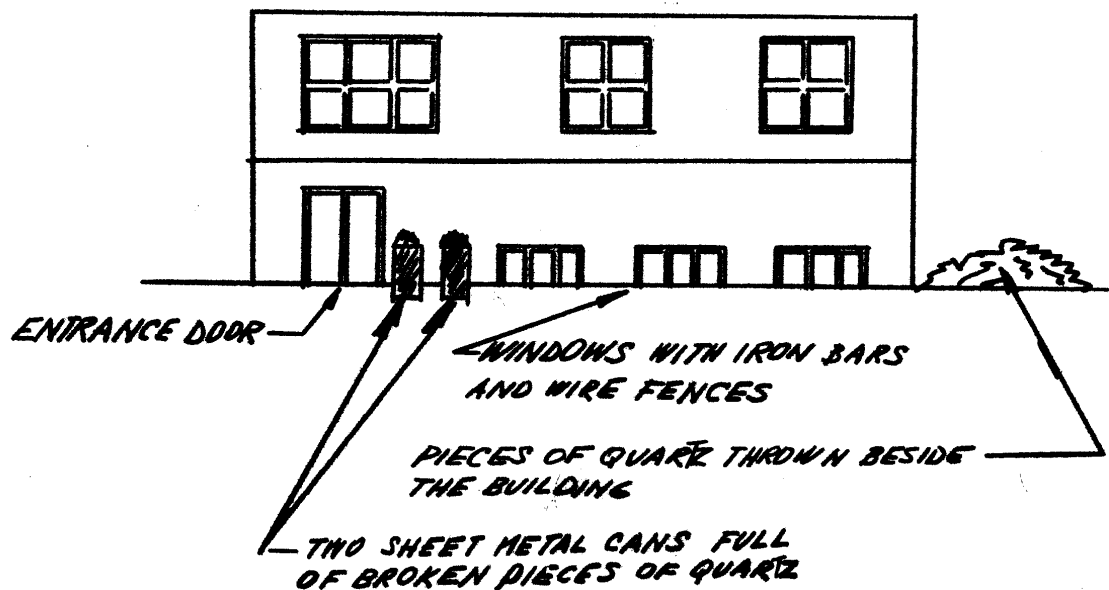
-3-

50X1-HUM

SKETCH #2
NOT IN SCALE



FRONT VIEW OF THE BUILDING No. 40



C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

-4-

50X1-HUM

Comments:

50X1-HUM

1.

the section was restricted to authorized Soviet personnel.

Comment:

50X1-HUM

2. Although the quartz glass would not be suitable for use in rocket nose cones, according to available information there is a plant in the vicinity of the Dzerzhinsk Plant which produces glass fibre.

Comments:

50X1-HUM

3.

"Section 40" produced ceramic materials, the raw product for which came from the Ural Mountains. The processed materials of "Section 40" were resistant to high temperatures and were used not only in the manufacture of rockets but also in instruments such as pyrometers for measuring high temperatures.

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

R.

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C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

COUNTRY USSR (Vladimir Oblast)

REPORT

SUBJECT Production of Rocket and Space Ship
Materials at Dzerzhinsk Glass
Factory

DATE DISTR. 19 July 1961

NO. PAGES 4

REFERENCES

50X1-HUM

DATE OF
INFO.
PLACE &
DATE ACQ.

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50X1-HUM

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50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

STATE	X	ARMY	#	X	NAVY	#	X	AIR	#	X	NSA	X	NSC	NIC	X	ORR	X	OCR	X	PIC	X
(Note: Washington distribution indicated by "X"; Field distribution by "#")																					

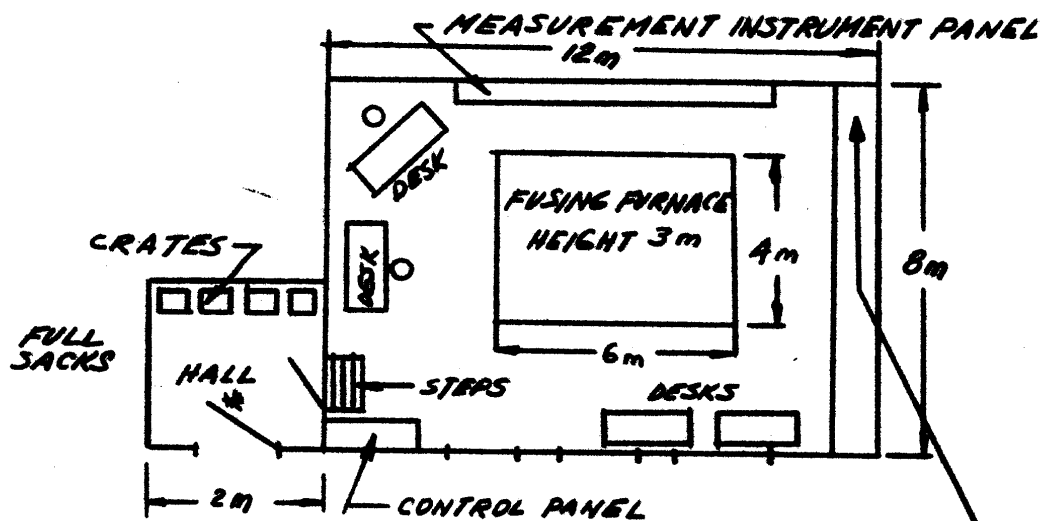
C-O-N-F-I-D-E-N-T-I-A-L

-2-

50X1-HUM

SKETCH No. 1.
NOT IN SCALE

PLAN OF THE INTERIOR OF BUILDING No. 40



PANEL HAVING ELECTRIC CONNECTIONS AT THE PARTS NEAR THE CEILING PROBABLY ELECTRICAL ENERGY PANEL.

* PLACE WHERE THE MAIN FURNACE IS LOCATED IS ABOUT 2.5m BELOW THE HALL.

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

SKETCH SHOWING THE LOCATION OF BUILDING No. 40

C-O-N-F-I-D-E-N-T-I-A-L

-3-

50X1-HUM

**SKETCH #2
NOT IN SCALE**



FACTORY ENTRANCE

ROAD IN FRONT OF FACTORY

POLISHING SECTION

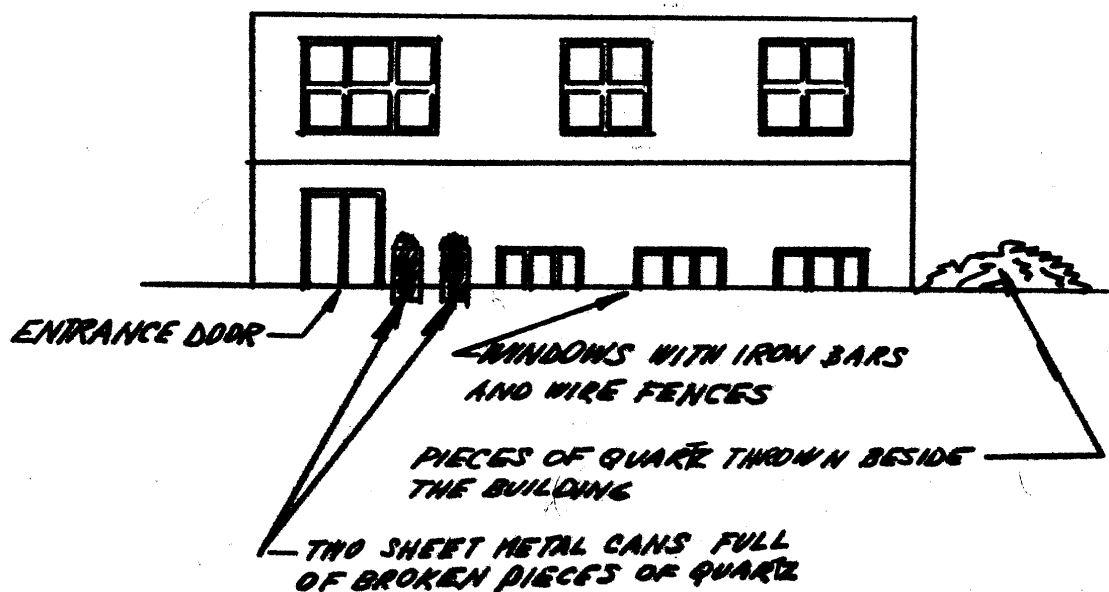
METAL CHIMNEY 30 cm IN DIAM.

**CHIMNEY 40 x 30 cm COVERED
WITH PLASTER**

BLENDING SECTION OF No. 40

ENTRANCE INTO BUILDING No. 40

FRONT VIEW OF THE BUILDING No. 40



C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

-4-

50X1-HUM

Comments:

50X1-HUM

1.

the section was restricted to
authorized Soviet personnel.

Comment:

50X1-HUM

2. Although the quartz glass would not be suitable for use in rocket nose cones, according to available information there is a plant in the vicinity of the Dzerzhinsk Plant which produces glass fibre.

Comments:

50X1-HUM

3.

"Section 40"
produced ceramic materials, the raw product for which came from the Ural Mountains. The processed materials of "Section "40" were resistant to high temperatures and were used not only in the manufacture of rockets but also in instruments such as pyrometers for measuring high temperatures.

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

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C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

COUNTRY USSR (Vladimir Oblast)

REPORT

SUBJECT Production of Rocket and Space Ship
Materials at Dzerzhinsk Glass
Factory

DATE DISTR. 19 July 1961

NO. PAGES 5

REFERENCES

50X1-HUM

DATE OF
INFO.PLACE &
DATE ACQ.

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50X1-HUM

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50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

STATE	X	ARMY	#	X	NAVY	#	X	AIR	#	X	NSA	X	FOR	NIC	X	CRD	BY	X	OCR	X
(Note: Washington distribution indicated by "X"; Field distribution by "#")																				

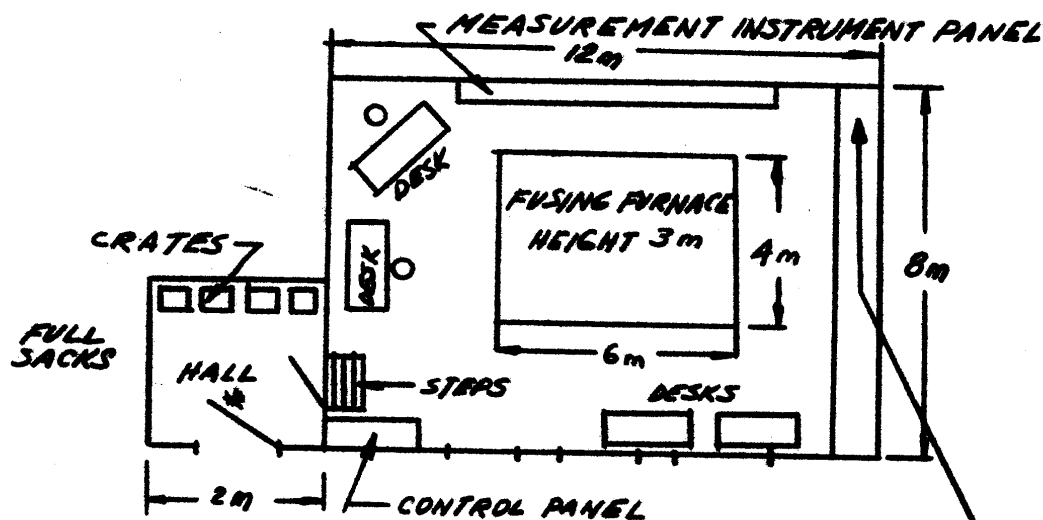
C-O-N-F-I-D-E-N-T-I-A-L

-2-

50X1-HUM

SKETCH No. 1.
NOT IN SCALE

PLAN OF THE INTERIOR OF BUILDING No. 40



PANEL HAVING ELECTRIC CONNECTIONS AT THE PARTS NEAR THE CEILING PROBABLY ELECTRICAL ENERGY PANEL.

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C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

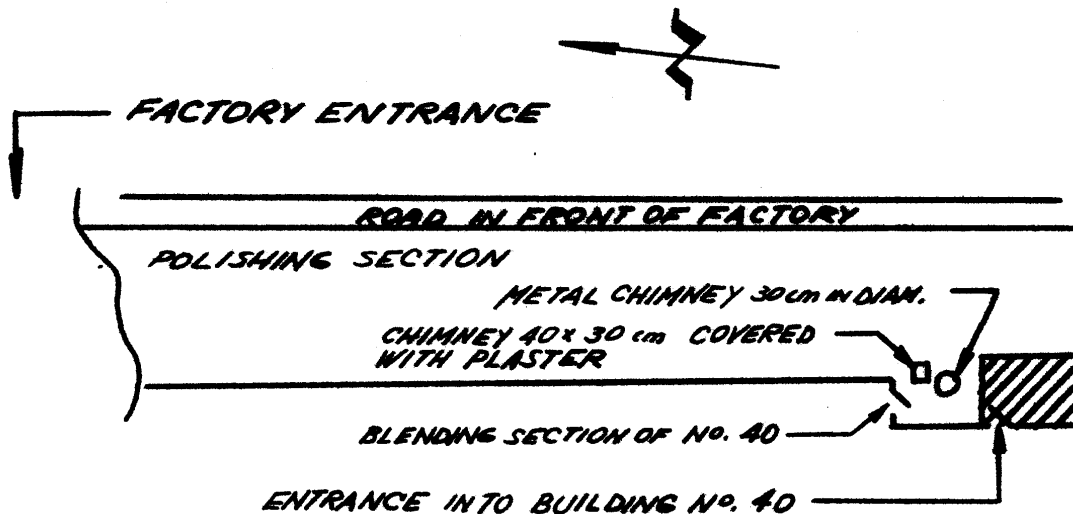
**SKETCH SHOWING THE LOCATION
OF BUILDING No. 40**

C-O-N-F-I-D-E-N-T-I-A-L

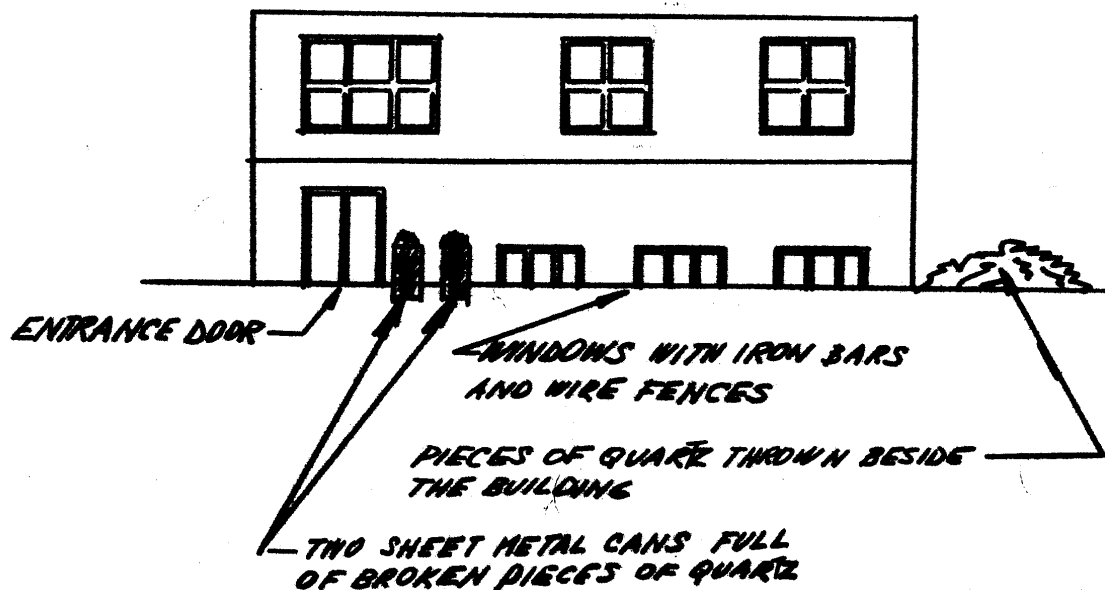
-3-

50X1-HUM

**SKETCH # 2
NOT IN SCALE**



FRONT VIEW OF THE BUILDING No. 40



C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

-4-

50X1-HUM

Comments:

50X1-HUM

1.

the section was restricted to authorized Soviet personnel.

Comment:

50X1-HUM

2. Although the quartz glass would not be suitable for use in rocket nose cones, according to available information there is a plant in the vicinity of the Dzerzhinsk Plant which produces glass fibre.

Comments:

50X1-HUM

3.

"Section 40" produced ceramic materials, the raw product for which came from the Ural Mountains. The processed materials of "Section 40" were resistant to high temperatures and were used not only in the manufacture of rockets but also in instruments such as pyrometers for measuring high temperatures.

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

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C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

COUNTRY USSR (Vladimir Oblast) REPORT [REDACTED]

SUBJECT Production of Rocket and Space Ship Materials at Dzerzhinsk Glass Factory DATE DISTR. 19 July 1961

NO. PAGES 5

REFERENCES [REDACTED]

50X1-HUM

DATE OF INFO.
PLACE &
DATE ACQ.

1. [REDACTED] the Dzerzhinsk Glass Factory in Gus Khrustalnyy (N 55-37, E 40-40), USSR. Within the factory grounds there is an old building in a restricted area referred to as "Section 40" (See sketches 1 and 2).¹ As of July 1960, quartz glass was being produced in this building for use in manufacture of rockets (sic).² The moulds for the production of the quartz glass were made by pressing powdered graphite. This section also produced other fireproof materials and engaged in experimentation.³ The section worked in shifts.

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50X1-HUM

[REDACTED] The glass contained air bubbles which closely resembled those observed at the Dzerzhinsk central laboratory.

3. [REDACTED]
- [REDACTED] a special section which produced quartz glass allegedly used in the manufacture of space ships. This quartz glass could be heated to a temperature of 1,800 degrees without losing its solid form and could be plunged at this temperature into cold water without cracking.

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

STATE	X	ARMY	#	X	NAVY	#	X	AIR	#	X	NSA	X	DDC	NIC	X	DDP	DDI	X	OCR	X
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PIC X

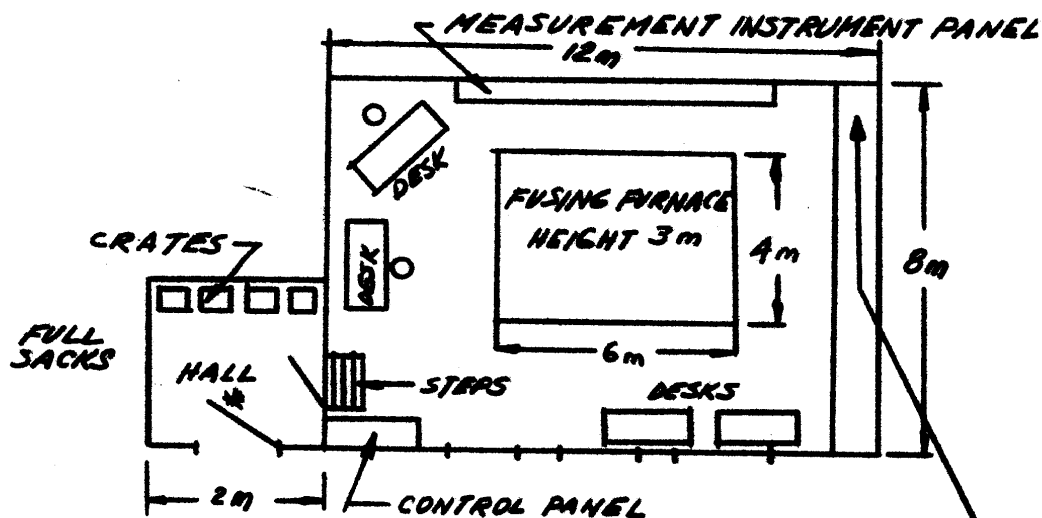
C-O-N-F-I-D-E-N-T-I-A-L

-2-

50X1-HUM

SKETCH No. 1.
NOT IN SCALE

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50X1-HUM

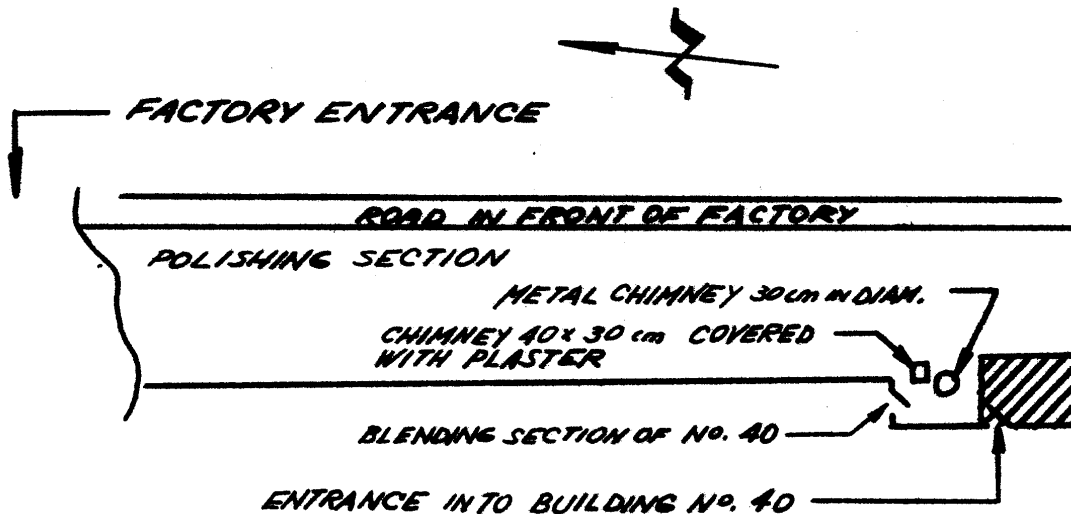
**SKETCH SHOWING THE LOCATION
OF BUILDING No. 40**

C-O-N-F-I-D-E-N-T-I-A-L

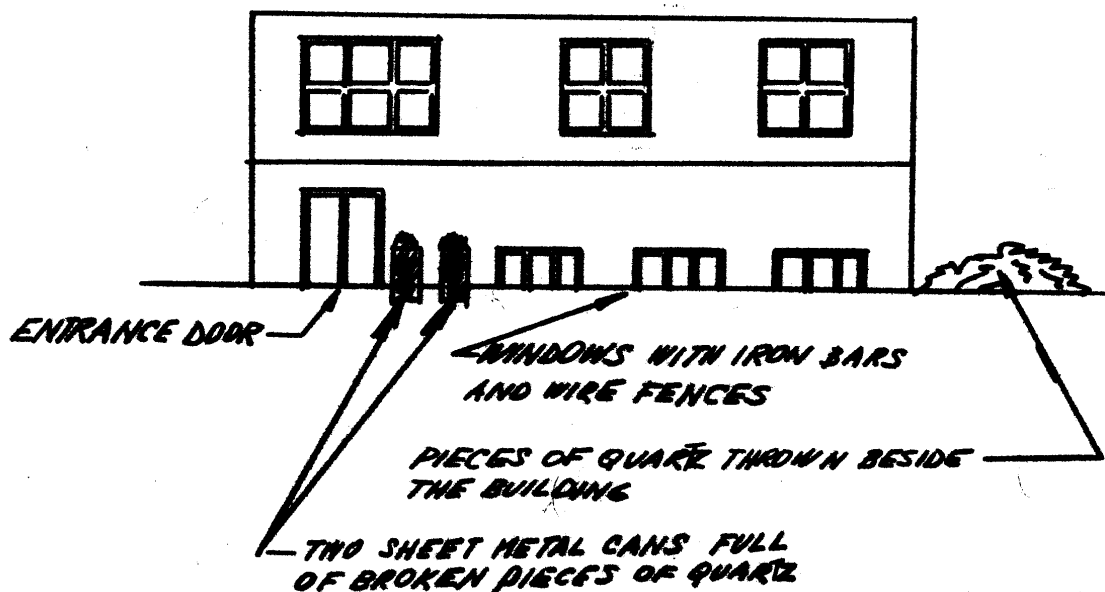
-3-

50X1-HUM

**SKETCH # 2
NOT IN SCALE**



FRONT VIEW OF THE BUILDING No. 40



C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

-4-

50X1-HUM

Comments:

50X1-HUM

1.

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authorized Soviet personnel.

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2. Although the quartz glass would not be suitable for use in rocket nose cones, according to available information there is a plant in the vicinity of the Dzerzhinsk Plant which produces glass fibre.

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50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

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